

greetings would be exchanged. Mr Bliss, of the Amalgamated Society of Engineers, was also called on, and said the organization to which he belonged had a membership of 80,000, with annual receipts of \$1 220,000 from all sources. The "Press" was replied to by E. B. Biggar, of THE CANADIAN ENGINEER, and C. H. Mortimer, of the *Canadian Electrical News*, who expressed their wish to do all in their power to forward the interests of the association. In reply to the former, who suggested the formation of a library of engineering works of reference, Mr. Philip said the association had engaged new rooms of their own for that purpose, and hoped to have a beginning made during December. The gathering broke up at 2 a.m. The entertainment committee consisted of E. J. Philip, G. C. Mooring, Samuel Thompson, Jas. Huggett, Thomas Eversfield and A. E. Edkins, who did their work well. The menu card contained several humorisms such as "steam-boiled cod-clinker sauce—scales removed by Sutton's compound," etc. The musical part of the programme was supplied by Messrs. George Grant, Thomas Seaton, William McLean, Charles Watson and Albert Flint.

MONTREAL NO. 1 MARCHING ON

I beg to enclose you a short account of what Montreal No. 1 has been doing during the month. In the first place, President York read a paper on "What must I do to Succeed as an Engineer?" It was one of the most instructive papers, or perhaps it should be called a lecture, ever presented to the members. It was full of good advice, and pointed out many of the stumbling blocks in the way to success; not only did it point them out, but it showed the manner in which they must be overcome. At the conclusion it was very evident that the paper had made a deep impression on many of those present, judging from their remarks. The following week Bro. Harry Nuttall read a paper on "The Purchase of a Steam Boiler." He took for illustration an actual transaction where a steam user called for tenders for a 100-h.p. boiler, the makers to furnish their own specifications. These were tabulated and spread on the blackboard, and the vast difference, not only in the actual price, but in the dimensions and detail of this supposed 100-h.p. boiler, was a surprise to many of those present. Bro Nuttall then proceeded to recount the arguments that each

very proud of this valuable addition to our collection, and several members spoke in the warmest terms of Mr. Bonner, as this is not the first time he has thought of Montreal No. 1. After the enthusiasm had somewhat subsided, the association unanimously passed a hearty vote of thanks to Mr. Bonner. During the coming month there are no less than five applications to be considered, some of them from very prominent engineers, so you will notice that we are still marching on to success.

B. A. YORK, Secretary.

LITERARY NOTES.

The "Architects' Directory" for 1895-96 has just been issued by W. T. Comstock, 23 Warren street, New York. The directory is carefully prepared, and contains a complete list of Canadian and United States architects. The effect of the recent depression is seen in the number of names which have disappeared during the last two years.

The first edition of the "Stationary Engineers' Gazetteer of Illinois, 1895," is to hand. It contains an alphabetical list, with addresses, of chief engineers of all steam plants throughout the State. It also gives the make and capacity of the engines, boilers, pumps, dynamos, electric lights, elevators, etc. For the convenience of shippers, a table gives the most direct route to any part of the State. Stationary Engineers' Gazetteer Association, 159 La Salle street, Chicago.

"Alternating Electric Currents," by Edwin J. Houston, Ph.D., and A. E. Kennelly, Sc.D., is the first of ten volumes of an "Elementary Electro Technical Series" for popular use. The subjects to be treated are alternating currents, electric heating, electro-magnetism, electricity in electro-therapeutics, arc lighting, incandescent lighting, electric motors, electric street railways, telephony and telegraphy. Though the several volumes form a series, each is, nevertheless, so prepared as to be complete in itself, and can be understood independently of the others. The authors develop the fundamental principles underlying the difficult branch of electrical engineering of which the work treats, in the simplest language and without the use of mathematics any further advanced than ordinary arithmetic, while the various applications are described in terms as

free as possible of technicalities. The book is profusely illustrated, printed on paper of a fine quality, and substantially bound in covers of a special design. New York: The W. J. Johnston Company, 225 pages, 77 illustrations. Price, \$1.

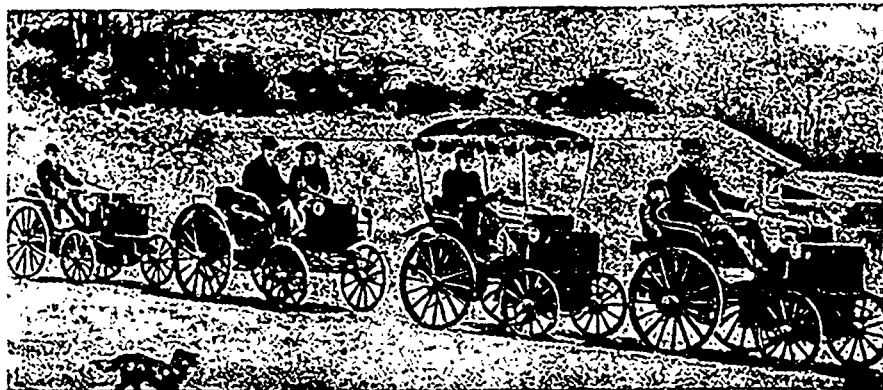
The annual report of the Association of Ontario Land Surveyors for the past year has been issued. It makes a volume of 184 pages, and contains, besides the reports of committees, the full text of the papers mentioned in the report in THE CANADIAN ENGINEER of April last. The frontispiece is a very good reproduction of the portrait of Joseph Bouchette, the well-known author and surveyor whose works are so much prized by Canadian literary men. A. J. Van Nostrand, Yonge

street arcade, Toronto, is secretary of this active association.

The tenth annual report of the "Illinois Society of Engineers and Surveyors" is to hand. The report, which extends to 176 pages of closely-printed matter, gives a number of valuable papers, and much that is instructive relating to the progress of engineering matters in this progressive State. The papers embrace "Sewer Construction," "Preservation of Sources of Water-supply," "Rockford Water Works," "the 'Ottawa (Ill.) Water Works,'" "Western Springs Water System," "Pumping Water from Well to Reservoir," "Brick Pavement Construction," "Photography for Engineers," "Location and Alignment of Drainage Districts," "Laying Out Race Tracks," "Substructure for Small Bridges," "Effects of Frost on Materials," etc. Jacob A. Harman, Peoria, Ill., is secretary.

The "Supplement to the Year Book of the Imperial Institute, 1895," gives a statistical record of the resources and trade of the British colonies and India. A map of India is given showing the recent railways and steamship routes, and there is also a map of Tasmania. Published by the Imperial Institute, South Kensington, London, England.

Chas. Baillarge, city engineer, of Quebec, is as prolific as ever in literary work. Among the contributions from his pen received by THE CANADIAN ENGINEER within the past two months are the following pamphlets.—"An Address of Welcome to the Montreal Section of Canadian Architects," "On the Bearing and



PROCESSION OF MOTO-CYCLES IN PARIS.

maker advanced in favor of his boiler, after he had been shown the prices and specifications of the others, some of which were really amusing. Bro. Nuttall then stated which boiler was actually purchased, that is, without the advice of an engineer, and then the members were asked to discuss the matter and say whether this man made a wise choice. Several members spoke on the subject, and it was decided that he had not got the right boiler. At the last meeting Bro. P. McNaughton gave a very able paper on "Evaporation in Practice and in Nature," during which he pointed out that the action of steam and water in a boiler was analogous to rain, dew, mist, etc., that was evaporated by the heat of the sun only to condense and return to the earth again, when night came and there was no heat. At the conclusion of his paper Bro. McNaughton was the recipient of many compliments and a hearty vote of thanks was tendered him. I must also tell you that Montreal No. 1 is still making many new friends, on the evening of the 22nd the president, on behalf of W. T. Bonner, Canadian agent of the Babcock & Wilcox Co., presented the association with several handsome photographs of their offices in the Board of Trade Building and of their high pressure boilers; and also a full size Stratton Steam Separator, with one side skillfully cut out to show the interior arrangements, it is also equipped with all the necessary valves and gauges, and mounted on an ebony frame bearing an engraved brass plate showing when it was presented. The members naturally felt